

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 6,879,578 B2
DATED : April 12, 2005
INVENTOR(S) : Pan et al.

Page 1 of 2

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 3,

Line 17, after the word "each", delete " $h^{(k)}$ " and insert therefor -- $\underline{h}^{(k)}$ --.

Line 32, after the words "chip vector", delete " $r \cdot \underline{dd}^{(k)}$ " and insert therefor -- $\underline{r} \cdot \underline{d}^{(k)}$ --.

Line 48, before the word "is", delete "n" and insert therefor -- \underline{n} --.

Column 4,

Line 3, after the word "response", delete " $\underline{hh}_m^{(k)}$ " and insert therefor -- $\underline{h}_m^{(k)}$ --.

Line 6, after the word "vector", delete " $\underline{rr}_m^{(k)}$ " and insert therefor -- $\underline{r}_m^{(k)}$ --.

Line 13, after the word "vector", delete " \underline{rr}_m " and insert therefor -- \underline{r}_m --.

Line 25, before the words "is the", delete " \underline{rr}' " and insert therefor -- \underline{r}' --.

Column 6,

Equation 17, delete " $s=C\underline{dd}$ " and insert therefor -- $s=C\underline{d}$ --.

Line 6, after the word "determine", delete " $\underline{s}is$ " and insert therefor -- \underline{s} is --.

Line 18, after the word "for", delete "s" and insert therefor -- \underline{s} --.

Line 26, after the word "for", delete " $\underline{s}use$ " and insert therefor -- \underline{s} use --.

Column 7,

Line 7, after the word "multiplication", delete " $R \underline{s}can$ " and insert therefor -- $R\underline{s}$ can --.

Line 14, before the word "is", delete " \underline{g}_i " and insert therefor -- \underline{g}_i --.

Line 50, after the word "matrix,", delete " $R_{\underline{cir}}$ " and insert therefor -- $R'_{\underline{cir}}$ --.

Line 53, after the word "is that", delete " \underline{g}_w " and insert therefor -- \underline{g}_w --.

Line 55, after the word "vector", delete " $\underline{s}is$ " and insert therefor -- \underline{s} is --.

Line 58, after the word "permuted", delete "s" and insert therefor -- \underline{s} --.

Column 8,

Line 60, after the word "uplink,", delete " $\underline{s}is$ " and insert therefor -- \underline{s} is --.

Line 62, after the word "data", delete " \underline{das} " and insert therefor -- \underline{d} as --.

Line 63, after the word "downlink,", delete " $\underline{s}is$ " and insert therefor -- \underline{s} is --.

Column 9,

Line 16, delete " \underline{rr}_m " and insert therefor -- \underline{r}_m --.

Line 16, delete " $Dp\underline{hh}_m$ " and insert therefor -- $D_p\underline{h}_m$ --.

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Page 2 of 2

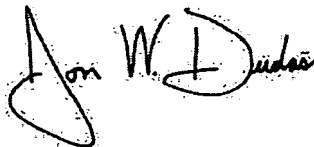
It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 12,

Line 24, after the word "high", delete "date" and insert therefor -- data rate --.

Signed and Sealed this

Twenty-third Day of August, 2005

A handwritten signature in black ink, appearing to read "Jon W. Dudas". The signature is stylized with a large, looped initial "J" and a cursive "Dudas".

JON W. DUDAS
Director of the United States Patent and Trademark Office